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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/687,010	10/16/2003	Richard D. Breault	C-3151	7400
7:	590 09/30/2005		EXAMINER	
M. P. Williams			MERCADO, JULIAN A	
210 Main Street Manchester, CT 06040			ART UNIT	PAPER NUMBER
•			1745	
		DATE MAILED: 09/30/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

7			25				
	Application No.	Applicant(s)					
	10/687,010	BREAULT, RICHAR	RD D.				
Office Action Summary	Examiner	Art Unit					
	Julian Mercado	1745					
The MAILING DATE of this communication	appears on the cover sheet v	vith the correspondence add	ress				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on _							
2a) This action is FINAL . 2b) ⊠	This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 							
Application Papers							
9) The specification is objected to by the Exar	miner.						
10)⊠ The drawing(s) filed on <u>16 October 2003</u> is/are: a)□ accepted or b)⊠ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by th	e Examiner. Note the attache	ed Office Action or form P10	U-152.				
Priority under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
Attachment(s)							
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date 	Paper No	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO 	-152)				

DETAILED ACTION

Drawings

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the instant "porous water transport plates" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

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Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2-4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claims 2-4 recite in line 3 of each claim "porous water transport plates serving as reactant gas flow fields." The specification discloses on page 8 line 14-16 that "[t]he illustrated fuel cell stack utilizes porous graphite water transport plates as reactant flow fields..." However, the mention of porous water transport plates is limited to these cited portions of applicant's disclosure. The disclosure is not found enabling on how the *water* transport plates may be employed as (*gaseous*) reactant flow fields. (emphasis added)

The examiner notes that because of the deficiencies of the drawings for failing to illustrate the claimed invention (discussion above), the Figures do not remedy the deficiencies of the written portion of the specification so as to enable the subject matter of claims 2-4 with respect to the claimed porous water transport plates serving as reactant gas flow fields.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Katz et al. (U.S. Pat. 4,548,874).

The examiner notes the Jepson format of claim 1. Katz et al. teaches a plurality of fuel cells [11] disposed between current collecting end plates [13, 15], having a reactant gas manifold [17] comprised of a single wall [25] with a GFP (gas-filled panel) [17] disposed external thereto, and an insulator panel [29] disposed on an external surface of the end plates. (Figure 1, col. 3 line 4 et seq.) Note that the insulator panel is part of a gas seal [23] which is specifically disclosed as sealing at the periphery of the gas manifold on edge surfaces [19]. (col. 3 line 3-8) The insulator panel comprises a ceramic frame [27] which is considered readable on the claimed resin/fiberglass composite. (ib.)

To the extent that claims 2-4 are believed enabled for the reasons discussed under 35 U.S.C. 112, first paragraph (discussion above), the claimed selection of manifolds and insulator panels in correspondence with the mass times heat capacity, *inter alia*, has not been given patentable weight as these features are considered to be drawn to process-of-using limitations which fail to further limit or give patentable scope to the claimed fuel cell stack.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian Mercado whose telephone number is (571) 272-1289. The examiner can normally be reached on Monday through Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

PATRICK JOSEPH RYAN SUPERVISORY PATENT EXAMINER

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